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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/596,139	03/06/2007	Shinichiro Yamada	09792909-6492	2702	
26263 7590 01/26/2011 SNR DENTON US LLP			EXAMINER		
P.O. BOX 061	080	LEE, DORIS L			
CHICAGO, II	, 60606-1080		ART UNIT	PAPER NUMBER	
			1764		
			MAIL DATE	DELIVERY MODE	
			01/26/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/596,139	YAMADA ET AL.	
Examiner	Art Unit	
DORIS L. LEE	1764	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

renou for nepty								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET WHICHEVER IS LONGER, FROM THE MALINED DATE OF Extractors of time may be available under the provisions of 37 CFR 1.136(a). In no after SM (i) MCNTHS from the mailing date of the communication. If NO period for reply is specified above, the maximum statutory period will apply and Fallure to reply within the set or extended period for reply will, by stated, cause the a Any reply received by the Officio later than three morths after the mailing date of this earned period center the adjustment. See 37 CFR 1.79(b).	THIS COMMUNICATION. event, however, may a reply be timely filled will expire SIX (6) MONTHS from the mailing date of this communication, pplication to become ABANDONED (35 U.S.C. § 133).							
Status								
1) Responsive to communication(s) filed on 01 December	<u>2010</u> .							
2a) ☐ This action is FINAL. 2b) ☐ This action is	non-final.							
 Since this application is in condition for allowance except 	pt for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4) Claim(s) 1-7 and 10-23 is/are pending in the application	ı.							
4a) Of the above claim(s) 13-23 is/are withdrawn from c	onsideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-7 and 10-12</u> is/are rejected.								
7) Claim(s) is/are objected to.								
Claim(s) are subject to restriction and/or election	requirement.							
Application Papers								
9) The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or	b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is requ								
11) The oath or declaration is objected to by the Examiner.	Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority u	inder 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:								
 Certified copies of the priority documents have be 	een received.							
Certified copies of the priority documents have be	· · · · · · · · · · · · · · · · · · ·							
Copies of the certified copies of the priority docur								
application from the International Bureau (PCT R	1 11							
* See the attached detailed Office action for a list of the ce	rtified copies not received.							
Attachment(s)								
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)							
2) Notice of Draftsporson's Faterit Drawing Review (FTO-945)	5) Notice of Informal Patent Application							
Information Disclosure Statement(s) (PTO/SB/08) Pager No.(s) Mail Date	5) Other:							

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PT	OL-32	26 (Rev.	08-	06)

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DETAILED ACTION

 No new grounds of rejection are set forth below. Thus, the following action is made final. Although the claims have been amended, the grounds of rejection are still valid and the amendments will be addressed below.

- 2. Claim 1 has been amended to change order of the flame retardant additive from "a hydroxide and a nitrogen oxide compound" to "a nitrogen oxide compound and a hydroxide". The claim has also been amended to add "the resin composition is flame retardant" which has support on page 5 of the specification.
- Claim 2 has been amended to state that the biodegradable polysaccharide further comprises at least one other polysaccharide component which has support in page 11, lines 1-3.
- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.

Claim Rejections - 35 USC § 103

 Claims 1-7 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al (JP 2003-192925, see English language equivalent 2005/0143502) in view of Tanaka et al (US 5,693,786) and Yoshida (US 2002/0151631).

The rejection is adequately set forth in paragraph 4 of the Office Action mailed on September 1, 2010 and is incorporated here by reference. Regarding the amendment of claim 1 which states that the resin is flame retardant: Yamada teaches that in its

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Abstract. Regarding the amendment of claim 2; the other polysaccharide component is taught in paragraph (100321) of Yamada.

Response to Arguments

- The objection to claim 2 in paragraph 2 of the office action mailed on September
 2010 has been withdrawn in light of the applicant's amendment filed on December 1,
 2010.
- Applicant's arguments filed December 1, 2010 have been fully considered but they are not persuasive for the reasons set forth below:
- 8. Applicant's argument: Yamada and Yoshida are clearly directed towards flame retardant polymer materials, whereas Tanaka is solely directed towards an esterified starch. Nowhere does Tanaka teach that an esterified starch would be a suitable in a flame retardant material.

Examiner's response: Tanaka is a secondary reference which teaches that esterified starch is appropriate for use in moldings (Abstract). It is noted that various organic and/or inorganic fillers can be incorporated into the composition of Tanaka (col. 7, lines 25-35). As Yamada and Yoshida are both drawn to molded objects (Yamada, [0074] and Yoshida, Abstract), with additives, the combination is appropriate because they are in the same field of endeavor and is maintained above.

Applicant's argument: None of the cited references provide any reason which
would have prompted one of ordinary skill to modify the inventions disclosed by
Yamada. Yoshida and Tanaka so as the reach the requirements of the present claims.

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Examiner's response: As stated in paragraph 4 of the Office Action mailed on September 1, 2010, the examiner clearly uses a motivation to combine the references. To combine Yoshida with Yamada, the motivation is to have excellent flame retardancy at a low amount of addition to the resin without degrading various properties of such resin and low production of combustion residue (Yoshida, [0007]). To combine Tanaka with Yamada, the motivation is to produce a resin which has good flexibility, toughness and water-related properties for practical use (Tanaka, col. 1, lines 42-47).

10. Applicant's argument: The examiner has provided no evidence that there would be a reasonable expectation of success because Tanaka does not teach that esterified start is a suitable component of flame retardant materials.

Examiner's response: Tanaka is a secondary reference which teaches that esterified starch is appropriate for use in moldings (Abstract). It is noted that various organic and/or inorganic fillers can be incorporated into the composition of Tanaka (col. 7, lines 25-35). As Yamada and Yoshida are both drawn to molded objects (Yamada, [0074] and Yoshida, Abstract), with additives, the combination is appropriate because they are in the same field of endeavor and is maintained above. As the prior art references does not explicitly state that the combination would not work, the burden is shifted to the applicant to provide the data to show that the combination is not feasible.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). Application/Control Number: 10/596,139

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DORIS L. LEE whose telephone number is (571)270-3872. The examiner can normally be reached on Monday - Thursday 7:30 am to 5 pm and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571)272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Doris L Lee/ Examiner, Art Unit 1764

/Vasu Jagannathan/ Supervisory Patent Examiner, Art Unit 1764